

## INTERNATIONAL SEARCH REPORT

International application No

PCT/US04/37302

**A. CLASSIFICATION OF SUBJECT MATTER**

IPC(7) A61 F 2/02 2/06 C12N 15/09 15/63 5/00  
 US CL 623/113 11, 15 66 435/325, 455, 424/93 2, 422

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

US 623/113, 11, 15, 66, 435/325, 455, 424/93 2, 422

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
 None

Electronic data base consulted during the International search (name of data base and where practicable, search terms used)  
 Please See Continuation Sheet

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
X	US 2003/0138950 A1 (MCALLISTER et al.) 24 July 2003 (24 07 2003), see entire document	13, 28 30, 32, 37 39 ---
Y		31, 35, 38
X	US 2001/0000802 A1 (SOYKAN et al.) 3 May 2001 (03 05 2001), see entire document	1-3, 28 32, 37 39 -----
Y		35
X	US 5,893,888 A (BELL) 13 April 1999 (13 04 1999), see entire document	1-3, 29, 35, 37-39 -----
Y		30-32



Further documents are listed in the continuation of Box C



See patent family annex

* Special categories of cited documents		T	late document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A"	document defining the general state of the art which is not considered to be of particular technical interest	X	document of particular relevance the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
T	either publication of patent published on or after the international filing date	"Y"	document of particular relevance, the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents such combination being obvious to a person skilled in the art
"L"	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&"	document member of the same patent family
"O"	document referring to an oral disclosure, use, exhibition or other means		
"P"	document published prior to the international filing date but later than the priority date		

Date of the actual completion of the international search

19 August 2005 (19 08 2005)

Date of mailing of the international search report

29 NOV 2005

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## Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)

This international report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons

- 1 ☐ Claim Nos  
because they relate to subject matter not required to be searched by this Authority, namely
- 2 ☐ Claim Nos  
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out specifically
- 3 ☒ 2SJ Claim Nos 4 27 33 34 36 and 40 50  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6 4(a)

## Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows

- 1 ☐ As all required additional search fees were timely paid by the applicant this international search report covers all searchable claims
- 2 ☐ As all searchable claims could be searched without effort justifying an additional fee this Authority did not invite payment of any additional fee
- 3 ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos
- 4 ☐ No required additional search fees were timely paid by the applicant. Consequently this international search report is restricted to the invention first mentioned in the claims it is covered by claims Nos

Remark on Protest ☐ The additional search fees were accompanied by the applicant's protest  
☐ No protest accompanied the payment of additional search fees

# INTERNATIONAL SEARCH REPORT

PCT/US04/37302

Continuation of B. FIELDS SEARCHED Item 3:

DIALOG-medium database, BRS/EAST-USPatent, EPO, JPO, Derwent, PG-Pubs

search terms implant, artificial tissue, matrix, biodegradable, cells, transfected, pacemaker, pacing, device, catheter